memmert
Experts in Thermostatics

Universal oven

Model UNP 800

Standard equipment

Ventilation and Control

- natural convection
- adjustment of pre-heated fresh air admixture by air flap through process controller in 10% steps for each segment individually
- vent connection with restrictor flap
- adaptive, fuzzy-supported, multifunctional, digital microprocessor PID-controller
- autodiagnostic system with fault indication
- 2 Pt100 sensors Class A in 4-wire-circuit, mutually monitoring and taking over the performance at the same temperature value
- digital 7-day-programme-timer with real time clock, precise minute setting, for one set value or start of ramp operation
- integrated timer for tempering profiles of up to 40 ramps, each segment adjustable from 1 min. up to 999 hours
- multifunctional programming via menu on 8-digit alphanumeric digital display (language to be chosen via set-up):
  tempering profiles of up to 40 ramps
  time- and set-point dependent operation
  air flap adjustable in 10% steps
- digital display (LED) of all set parameters, such as temperature, weekdays, time, air flap position, programme status and set-up values
- resolution of display for set value 0,1 °C below 99,9 °C, 0,5 °C above 100 °C; for actual value 0,1 °C
- long-term logging (ring store) of all relevant data, GLP-conforming as data logger - 1024 kB
- programme stored on power failure
- parallel printer interface (incl. real-time clock with date function) for printing logging files, suitable all PCL3-compatible ink-jet printers (USB available via converter, see accessories)
- serial interface RS 232 including MEMMERT Software "Celsius" for programming and documentation
- chip card control incl. one MEMoryCard XL with 32 kB (up to 40 ramps)
- incl. works calibration certificate for +160 °C

Multiple Overtemperature Protection

- with audible and visual alarm
- digitally adjustable, electronic microprocessor overtemperature controller TWW protection class 3.1 - maximum value for overtemperature - minimum value for undertemperature
- additional integral over- and undertemperature monitor "ASF" (Auto-Safety-Function) automatically following the setpoint value at a preset tolerance range; audible alarm is activated in case of over- or undertemperature, heating is switched off in case of overtemperature
- resolution of display and setting accuracy: 0,5 °C below 99,9 °C, 1 °C above 100 °C
- mechanical temperature limiter TB protection class 1 switching the heating off at approx. 10 °C above max. oven temperature

Textured Stainless Steel Casing

- w x h x d: 1190 x 1620 x 750 mm
- fully insulated stainless steel doors with double locking and 4-point adjustment
- rear zinc-plated steel
- mounted on lockable castors

Interior - Heating Concept

- w x h x d: 1040 x 1200 x 600 mm, 749 l
- easy-to-clean interior, made of stainless steel, reinforced by deep drawn ribbing with integrated and protected large-area heating on four sides
- 2 stainless steel grids

Temperature Range

- from +30 °C (however, at least 5 °C above ambient) up to +250 °C

Voltage / Power Rating

- 400 V (+/ 10%), 3 phases N, 50/60 Hz
- ca. 4.800 W (during heating)

- adaption of effective heating power depending on the set temperature

Packing Data

- net weight approx. 160 kg
- gross weight carton approx. 222 kg
- dimensions approx.:
  carton w x h x d: 132 x 184 x 91 cm
- the appliances must be transported upright

Customs Tariff Number

- 8419 3990

Country of Origin

- Federal Republic of Germany

WEEE-Reg.-No.

- DE 66812464

Accessories

• Temperature range +300 °C for universal ovens (not available for ovens with glass door)	A0
• Perforated stainless steel shelf	E0(x)
• Stainless Steel Grid (for good air circulation)	E3(x)
• Interface USB instead of interface RS232	W3
• Interface Ethernet instead of RS232 inclusive software "Celsius Ethernet-Edition"	W4
• Parallel/USB converter cable with integrated power supply unit to connect PCL3-compatible HP printers with USB interface to MEMMERT units.	W1

• Documentation package consisting of parallel USB converter cable including PLC3-compatible HP colour inkjet printer with USB interface (HP Deskjet 6940 or successor) for direct connection of printer to Memmert unit	W2
• IQ check list with works test data for oven as support for validation by customer	Q1
• OQ check list including one free-selectable temperature distribution survey to DIN 12880: 2007-05 (size 200/300: 9 measuring points, size 400-800: 27 measuring points) with works test data for oven as support for validation by customer	Q2
• Software conforming to FDA "Celsius FDA-Edition" for up to 16 units	Q3
• Oven-linked authorisation card (User-ID-Card) - prevents undesired manipulation by unauthorised third parties	V1
• Computer interface RS485 (for networking a maximum of 16 ovens) instead of interface RS232	V2
• Temperature profile write/read unit for programming via PC, for writing to and reading from the chip card, up to 40 ramps	V3
• Additional chip card, blank, formatted (32 kB MEMoryCard XL for a maximum of 40 ramps)	V4
• Connection cable for computer interface RS232 according to DIN 12 900-1	V6